DERWENT-ACC-NO: 1995-096495

DERWENT-WEEK: 199513

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TITLE: Electrostatic image belt
loop conveyor for colour
                       printer - uses **web-edge**
sensors to control steering angle
                       of loop conveyor to provide
zero cross-tracking velocity

PRIORITY-DATA: 1995RD-0370035 (January 20, 1995)

PATENT-FAMILY:

PUB-NO		PUB-DATE
LANGUAGE	PAGES	MAIN-IPC
RD 370035 A		February 10, 1995
N/A	006	G03G 000/00

INT-CL (IPC): G03G000/00

ABSTRACTED-PUB-NO: RD 370035A

BASIC-ABSTRACT:

The image loop conveyor uses a simple two point
sensor which detects that a web
edge is in one of the zones. The zones are in a
dead band, too far forward, or
too far back. Automatic negative feedback is
provided by an upstream steering
axis. A distance between a steering roller and the

axis is set to a given
value. The steering roller angle is adjusted to
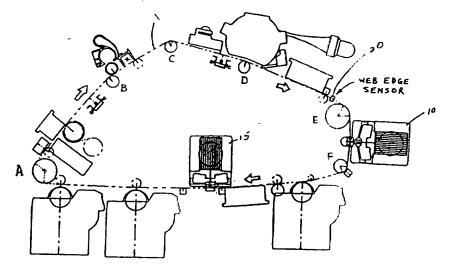give a zero crosstracking
velocity.

Steering angle is adjusted slightly only in
response to long term crosstrack
drift of the web as detected by the two sensors.
The sensors defined the dead
band within which any variation in web edge
position is ignored.

ADVANTAGE - Optimises distance between steering
roller and steering axis,
thereby reducing need to adjust roller.

---------- KWIC ---------

Title - TIX (1):
    Electrostatic image belt loop conveyor for
colour **printer** - uses **web-edge**
sensors to control steering angle of loop conveyor
to provide zero
cross-tracking velocity

WEB EDGE SENSOR

A
B
C
D
E
F

10
15
20